

# JUNE

at the

## CALIFORNIA ACADEMY OF SCIENCES

In order to accommodate as many of our members as possible, an experiment has been arranged for the June monthly meetings of the Academy. A matinee performance on the afternoon of Wednesday, June 16 at 2:30 p.m. Subsequent such meetings will be determined by the popularity of this experiment. We sincerely hope it will prove attractive to many of our good friends and supporters.

### JUNE MEETINGS

(For Members and Their Guests)

DATES: Wednesday, June 16 at 2:30 & 8:00 p.m.  
Thursday, June 17 at 8:00

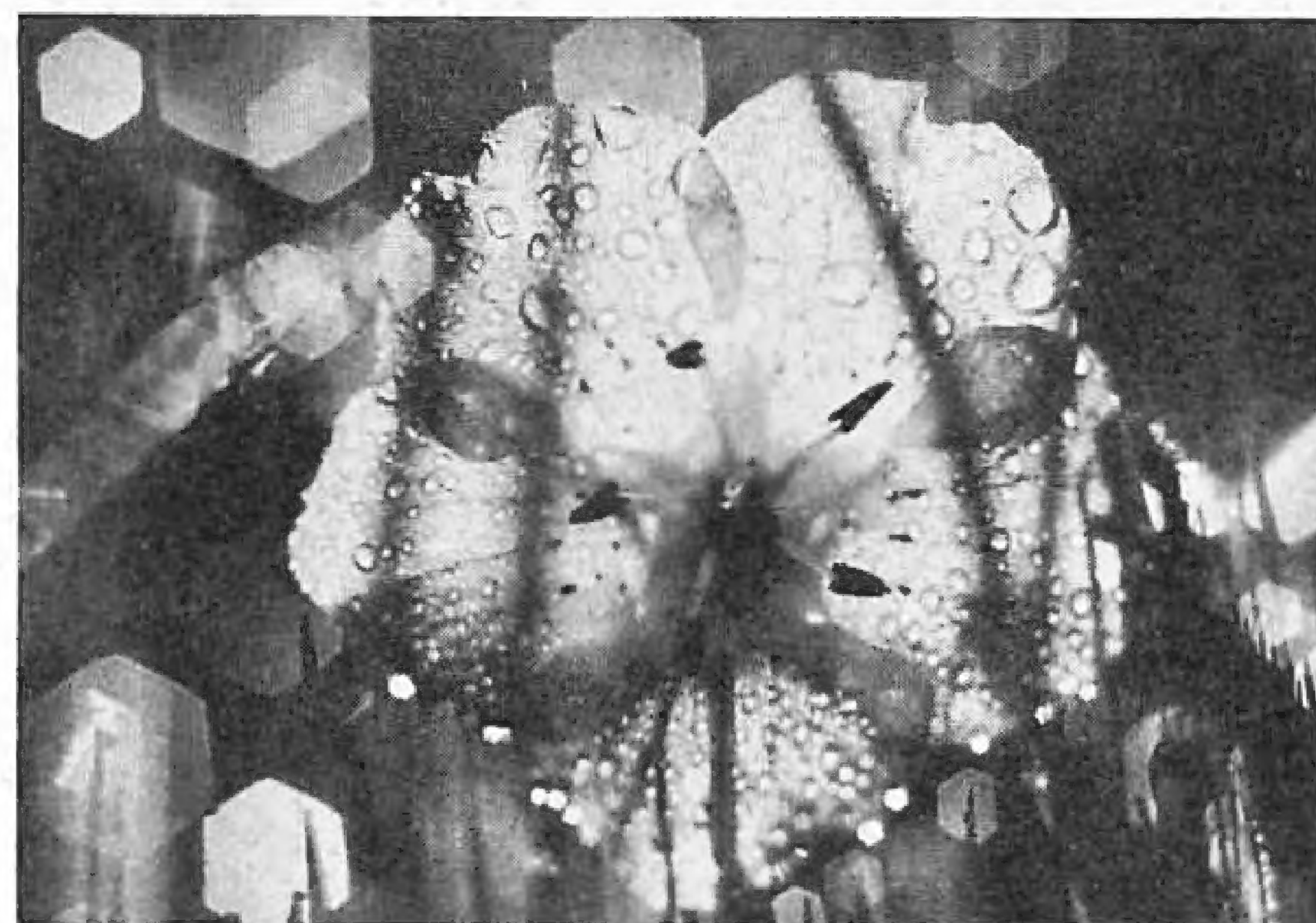
PLACE: May Treat Morrison Auditorium

SPEAKER: David Cavagnaro

SUBJECT: "IN THE FORESTS OF LILLIPUT"

Here is an exciting opportunity to enter — magically — the world of the very small; a chance to explore the miniature miracles happening beneath the grass, areas of the tiny that more often than not we dismiss with neither a backward nor downward glance.

Mr. Cavagnaro is marvelously occupied with a new landscape — the mini-world of a California grassland. For the most part in the morning, he — with his camera — has been up and about and occupied with such fine pursuits as capturing spider webs covered with dew and recording the wonderment of insects waking up. Crawling cautiously through the grass at all seasons of the year, he has caught many of nature's moods and dramatic events scarcely noted such as spiders being born, growing up, spinning, mating, and laying eggs. Miniature



"Baby Blue Eyes"

predators stalk through the "grass trees" and the drama of life is spun out in an entirely new dimension.

Mr. Cavagnaro, co-creator of the book titled "Living Water" mentioned elsewhere in this NEWSLETTER, spent three years of discovery in this different perspective — walks and excursions in Marin County and beyond to the foothills of the Sierra and to Sonoma, "bagging" a host of exquisite photographs which are a joy to behold.

Three meetings as indicated. Your 1971 membership card is your admission for all three. For the matinee, present your card to the door attendant at the entrance to *Cowell Hall only*. You will be asked to show it once again at the entrance to Morrison Auditorium. For the evening meetings, the arrangements are as they have been in the past: ingress at the main entrance, Cowell Hall, and at the rear Planetarium entrance off Middle Drive.

### MORRISON PLANETARIUM

"A GRAND TOUR OF THE SOLAR SYSTEM" continues in the Theatre of the Stars through June 20. Something is due to happen in the 1970s that will not happen again for some 175 years. The planets — all of them — will align themselves in such a way that unmanned spacecraft can probe regions of our solar system which one day would have been beyond belief. This is a preview of space exploration due to happen in your own lifetime, as early as 1977 and 1979.

Shows daily at two with evening performances, Wednesday through Sunday, at eight. Extra matinees, Saturdays, Sundays and holidays, at 3:30. Closed Monday and Tuesday nights.

Beginning June 24: "ASTROLOGY: QUEEN OF SCIENCE", a repeat of a highly successful — and controversial — sky show first presented in August 1968. Continues through September 12. Show times (June 24 through Labor Day): Daily at 12:30, 2:00, 3:30 and 8:00 p.m. Admission: Adults, \$1.00 with half price for youths under 16, students with student body card, and armed services personnel.

### SPECIAL EXHIBITS

"THE GALAPAGOS ISLANDS", a new exhibit in Cowell Hall opening June 1 and continuing indefinitely, is devoted to "the enchanted isles" which have long been a focal point of Academy research. Photographic enlargements, extensive text, and specimen material including three of the huge Galapagoan tortoises.

"LIVING WATER", exquisite nature photographs by Ernest Braun and a sensitive, literate text by David Cavagnaro, based on their just-published book of the same title. Lower Level, Cowell Hall. Begins June 16 and extends through August 16. Mr. Braun and Mr. Cavagnaro were first prize winners in LIFE Magazine's recent photographic contest (natural history division), for professional and amateur shutterbugs. Their book, "Living Water," is available for purchase at the sales desks which are open at the times of all our June meetings. Mr. Cavagnaro has indicated he will be happy to inscribe copies if members so desire. On perusal, you will agree that the book is a volume to treasure.

## NEWS and NOTES . . . . .

HERE IS A WORD we would like bruited about for the enjoyment of all and we hope you will share it with your friends and neighbors. Beginning June 24 and continuing through Labor Day, September 6, the entire Academy will be open from ten in the morning until nine at night, an arrangement which has brought pleasure to many the past two summers and which is considered well worth the added effort not to mention the expense.

PHILATELISTS TAKE NOTE: The Academy, in concert with the U.S. Postal Service, the Department of Interior, and other interested agencies, will celebrate the issuance of four Wildlife Conservation stamps on Saturday and Sunday, June

12 and 13. One of the stamps is the causative of the CAS' involvement . . . a California condor is pictured. The current plight of this magnificent bird affects the whole of the State and the watchword for this focusing of attention is "Let Them Live — Let Them Alone."

Thus, throughout California, attention will be directed to various museums where preserved specimens may be seen (such as at the Academy) — a far better way of indulging curiosity than trespassing on the condor's habitat in the Sespe Sanctuary.

On June 12-13, purchase of these stamps and their commemorative cancellation will be available in Cowell Hall in a special booth manned by postal officials. Artist Satnley Galli, author of the first-prize winning wood duck stamp in 1968, designed all four of the stamps.

THE JUNIOR ACADEMY is offering an expanded summer program of instruction for science-minded youngsters, ages 9-16, who are interested in spending a part of their vacation in scientific pursuits. Here is the list of courses to be offered: Oceanology, Physical Geology, Photography, Geological Hazards (Earthquakes), Marine Biology, Ichthyology, Botany, Conservation of Natural Resources, Herpetology, Astronomy, Arts & Nature, Ornithology, Aquatic Organisms, Arachnology — plus a field course (to Lassen Volcanic National Park) in Vulcanology, and three Geologic Walks Through San Francisco on three Saturdays. All courses, some of which will include parents, are under the supervision of experts in their field.

If you are interested, write or telephone (221-5100) the Academy for our 1971 Junior Academy Summer Program which will be available the first week of June and free on request. Registration for all courses is slated for Saturday June 19, ten to four p.m., and all signing-up is on a first-come first-served basis.

MISCELLANEA. Through the medium of the NEWSLETTER, the Docent Council wishes to express its genuine appreciation for the support given it by the membership for the "African Adventure" held on the evening of April 29. Over 1000 were in attendance and the evening was a fine success — aesthetically and financially . . . "THE SEA," authored by Senior Scientist Robert C. Miller and first published by Random House in 1966, has been translated into its fifth language, Italian. Previous translations have been in Spanish, French, German and Dutch. No matter the language, the handsome book is a *must* for every library.



## Meet The Staff . . .



Photo by Lloyd Ullberg

JOHN HUNTER THOMAS, Curator in the Department of Botany since September 1969, received his Bachelor of Science degree from the California Institute of Technology in Pasadena, and his Master's and Doctoral degrees from Stanford University.

Currently, he is Associate Professor, Biological Sciences and Curator of the Dudley Herbarium at Stanford, which makes it a chock-full schedule what with his part time duties at the Academy.

His particular fields of interest lie in the taxonomy and ecology of vascular plants of Western North America, particularly Alaska, California and Baja California; plus a positive devotion to human population problems, environmental deterioration, and conservation. He is no Johnny-come-lately in the field of ecological problems and has devoted considerable time and effort over the years sharing his ideas. He is the editor of *Madrono*, the journal of the California Botanical Society.

He is the author of numerous papers and two books, *Flora of the Santa Cruz Mountains of California*, and — with Dr. Ira L. Wiggins — *A Flora of the Alaskan Arctic Slope*. He is working on a third, *Central California Flora*.

Dr. Thomas resides in Stanford, California with his wife Susan. Off-duty, and as time allows, he is an enthusiastic hiker, sometime photographer, and the editor and owner of a private press, a hand-printing vocation which began with printing botanic labels and proceeded to occasional volumes of poetry written by friends.

## NEW MEMBERS OF THE ACADEMY

### Regular Members

Abercrombie & Fitch Co.	Mrs. William J. Lawrence
Miss Diane Elise Athearn	Mr. Edgar G. Lemmon, Jr.
B.M.A. Theological Seminary	Miss Carol L. Lombard
Miss Ursula A. Bernhart	Miss Charlotte E. Mauk
Miss Judith F. Beverly	Mr. Robert Maxey
Miss Patricia Billig	Mr. Ruel L. Mills
Mr. J. M. Blakley	Miss Jenny Moller
Dr. John Bolton	Mr. Douglas Murdock
Mr. Royal C. Brown	Miss Norma H. Murphy
Mrs. Thomas Bruce	Miss J. Patricia McCarthy
Mr. Richard W. Cassady	Miss Margaret R. McLean
Dr. Edward K. Chook	Mr. Vernon A. Neff
Miss G. Gloria Coates	Mr. Charles R. Norwood
Miss Susan Coburn	Mr. Mark Olague
Miss Evelyn Condon	Miss Ruth Omatsu
Convent of the Sacred Heart	Miss Anne F. Owen
Miss Laurie Craise	Miss Diana Mae Pacini
Mr. Richard L. Crosby	Miss Ruth Patchkowski
Mr. Herbert W. Crow	Miss Lee Patterson
Miss Virginia M. Daly	Mr. Norman Penrice
Miss Phyllis Carolyn Dennis	Mr. James J. Petrakis
Mr. Joseph A. Donohoe	Miss Diane Piagneri
Miss Donna Dougherty	Mrs. George R. Plant
Miss Suzette Eby	Mrs. Max Pollak
Mr. William B. Engle	Miss Jane Radcliffe
Miss Juanita Erickson	Miss Marie Rhein
Mr. Timothy J. Fahey	Miss Valory Roberts
Mr. Ben Farber	Miss Gwen Ross
Mr. Dennis C. Faria	Mr. William Roten
Mr. Gordon Felton	Miss Rita M. Roth
Miss Virginia M. Fries	Mr. David G. Santori
Miss Carla Fruchtenicht	Dr. William Schwarzman
Mr. Bruce Gamble	Mr. E. Peter Scrivani
Miss Dina Jane Griffith	Dr. Robert S. Shaps
Mr. Gerald J. Gross	Miss Jane E. Simpson
Miss Shirley Gwin	Miss Margaret I. Siri
Mr. George D. Hack	Mr. Edward Spasek
Mr. John E. Hanson, Jr.	Mr. Robert F. Stagner
Mr. Alan Henninger	Mr. John Steiner
Miss Laura Hess	Mr. Phillip R. Stinchfield
Mr. Howard W. Hill	Miss Barbara Stocks
Miss Rose Hong	Miss Ann Sweeney
Mr. John H. Hutchison	Dr. Leonard Tamsky
Miss Mary J. Jantsch	Mr. George Thomas
Mr. Larry D. Johnson	Mrs. L. C. Toms
Mr. Richard Ellis Jones	Miss Mathilde M. Toomey
Dr. Stewart M. Jones	Mr. I. W. Toyama
Miss Evelyn Jopling	Miss Marcia Tucker
Mr. Paul Kildani	Mr. Burton E. Vaughan
Mrs. Hobart C. Knapp	Mr. Max Weismair
Mr. John Knief	Mr. Bruce Weselsky
Mr. Max J. Krueger	Dr. Ted Winn, Jr.
Miss Martha Kunstorff	Miss Anna Wong
Mr. Russell W. LaBelle	Miss Carol Joyce Wong
Mr. Tom Lambert	Mrs. D. K. York

### Family Members

Mr. K. C. Adami	Mrs. Mary Jane Clarkin
Mr. Albert B. Alden	Dr. A. Roy Cleghorn
Mr. Rani Anbar	Mr. James B. Cochrane
Mr. W. E. Appleberry, Jr.	Mr. H. A. Cole
Mr. & Mrs. Ray W. Archer, Jr.	Dr. R. P. Colton
Mr. & Mrs. E. W. Ashmead	Mrs. Gerald S. Colvin
Mr. Richard Bachenheimer	Dr. & Mrs. Philip K. Condit
Mr. Don E. Bailey	Mr. W. B. Cosby
Mr. R. B. Ball	Mr. & Mrs. W. E. Davies
Mr. William H. Barbee	Mr. Bill C. Day
Dr. Bernard C. Berger	Mr. Jan de Blicke
Mr. & Mrs. Nathan Berkowitz	Mr. Victor M. DeKalb
Mr. Robert Berrend	Mr. & Mrs. Gaylon
Mr. John L. Boland	DeMaranville
Mr. David C. Bomberger	Mr. William Dent
Mr. & Mrs. John A. Boyd	Mr. Frank N. W. Doodha, Jr.
Mr. Quentin Breen	Dr. & Mrs. D. W. Dorn
Mr. & Mrs. Clarence D. Brenner	Mrs. Margaret Duffala
Mrs. Beatrice E. Brown	Mr. & Mrs. Edwin Engberg
Mr. Burton O. Bush	Mr. Dorr H. Etzler
Mr. George P. Capture	Mr. & Mrs. Don Fabun
Mr. Gary P. Cefalu	Mr. E. Perrin Fay
Mr. & Mrs. Alvin J. Clark	Mr. & Mrs. George Fosselius
	Mr. Walter C. Frey

Mr. & Mrs. Larry Friday  
Dr. E. C. Gaenslen  
Mr. Gregory A. Gitchell  
Dr. & Mrs. John L. Graham  
Mr. Arthur Grantz  
Mr. & Mrs. Simon A. Greenberg  
Mr. & Mrs. Robert E. Harms  
Mr. & Mrs. Curtis E. Hill  
Mr. Ricky Hoffman  
Mr. & Mrs. John L. Holland  
Mr. & Mrs. John P. Holland, Jr.  
Mr. Bill B. Holt  
Mr. & Mrs. John Holtzapple  
Mr. & Mrs. C. W. Huber  
Mr. Kenneth A. Johnson  
Mrs. Lana Koloboff  
Mr. S. L. Lapsys  
Mr. & Mrs. J. Gary Lindquist  
Mr. & Mrs. Arthur D. Livingston  
Mrs. Carol Lloyd  
Mrs. Louren M. Lohstroh  
Mrs. B. Lyons  
Mr. & Mrs. Marc Malik  
Dr. Howard F. Martin  
Dr. & Mrs. Alan M. Massing  
Dr. Kenneth S. Masumoto  
Mr. & Mrs. R. N. Mayhew  
Mrs. Anita Miller  
Mr. Robert J. Mion  
Dr. V. Alan Mode  
Mr. J. G. McChesney  
Mr. & Mrs. Gerald D. Wright

Mr. & Mrs. Robert M. Nanney  
Mr. Ross Nordfelt  
Dr. Michael N. Papalopoulos  
Mr. C. Parson  
Mr. & Mrs. Leon Pavey  
Dr. Shirley & Harmon Peeke  
Mr. R. L. Peterson  
Mr. & Mrs. Will Pilcher  
Mrs. Marilyn Poschman  
Dr. Dalzell J. Potter  
Mr. Bernard M. Pregerson  
Mr. Robert M. Prosek  
Dr. & Mrs. E. F. Quinlan  
Dr. & Mrs. William Ramsey, III  
Mr. Otto L. Reisman  
Mr. & Mrs. Leonard Richards  
Mrs. Bernice Riney  
Mr. Mason Roberson  
Mr. & Mrs. Wilbur J. Russ  
Dr. & Mrs. Robert Scarborough  
Mr. Ronald M. Schilling  
Dr. Ronald A. Seltzer  
Dr. Floyd Shacklock  
Mr. Bob Shapiro  
Mrs. Doris Sloan  
Mr. & Mrs. Jamie H. Sutton  
Mr. & Mrs. Paul F. Terrill  
Mr. William C. Traverso  
Dr. Charles A. Webster  
Mr. John R. Whinnery  
Mr. & Mrs. Emil C. Wiener  
Mr. & Mrs. Charles E. Williams  
Mr. Alvin Wortman

### Contributing Members

Mr. & Mrs. Robert J. Derr	Mr. Ralph T. Keenan
Miss Lissa Fowler	Mrs. Julia Moor
Mr. C. Leroy French	Mrs. Roger R. Stewart

### Life Members

Mr. & Mrs. John P. O'Shea

Non-Profit Organization  
U. S. POSTAGE  
**PAID**  
San Francisco, Calif.  
Permit No. 7544

Ref.  
Q 11  
C22  
no 378



THE CALIFORNIA ACADEMY OF SCIENCES  
Open every day of the year San Francisco 94118  
(415) 221-5100

No. 378 — Published Monthly by the  
CALIFORNIA ACADEMY OF SCIENCES  
GOLDEN GATE PARK • SAN FRANCISCO 94118  
JUNE 1971